

**PROGRAM AT A GLANCE | Sunday, 12 FEBRUARY 2023**

8:00-9:00 Registration & Morning Coffee				
SESSION I				
Activity Type/Title:	CT and MRI of the Abdomen	Molecular Imaging in the Era of Precision Medicine	Safety, Protection, Bio-Dosimetry and Emergency Preparedness	MRI Safety
Coordinator(s):	Dr. Khaled M. Elsayes	Dr. Moheieldin Abouzeid, Mr. Refaat Al-Mazrou	Dr. Ghazi Alsbeih, Dr. Mehenna Arib and Mr. Omar Noor	Mr. Omar Noor
Moderator(s):	Dr. Khaled M. Elsayes	Dr. Mohei Abouzed and Mr. Refaat AlMazrou Dr. Mohammed AlQahtani and Abdulwahab Alharthi	Dr. Mehenna Arib, Dr. Ghazi Alsbeih	Dr. Maxwell Amurao
Location:	Auditorium	Classroom 1	Classroom 3	Classroom 4
9:00 – 9:30		Dosimetry in Internal Radiation Therapy: fundamentals, current practice and future <b>Dr. Sharok Kimiaei</b>	Welcome Note and Introduction to Health Effects of Ionizing Radiation <b>Dr. Ghazi Alsbeih, Dr. Mehenna Arib</b>	Introduction to MRI Safety • Static Magnetic Field (Bo) • Spatial Magnetic Field Gradients (dB/dx) <b>Dr. Maxwell Amurao</b>
9:30 – 10:00	Diagnostic Approach of benign liver lesions <b>Dr. Khaled M. Elsayes</b>	Treatment planning systems for the personalization of the radioembolization with Y90 microspheres <b>Dr. Lidia Strigari</b>	Radiation Emergencies: Scope of the Problem <b>Dr. Nasser Shubayr</b>	<b>Morning Break</b>
10:00 – 10:30	Diagnostic Approach of malignant liver lesions <b>Dr. Khaled M. Elsayes</b>	<b>Morning Break</b>	<b>Morning Break</b>	Introduction and the Physics of MRI Safety • Time Varying Magnetic Fields (dB/dt) • Time Varying Radiofrequency Fields (B1) <b>Dr. Maxwell Amurao</b>
10:30 – 11:00	Dollar Prize Interesting case competition <b>Dr. Khaled M. Elsayes</b>	Targeted alpha particle therapy, potentials, advantages, di-culties, modelling & dosimetry <b>Dr. Martin Andersson</b>	Major Nuclear & Radiological Accidents & Lessons Learned <b>Dr. Belal Mofteh</b>	MRI Safety – Considerations for Engineering Controls • MR safety zones • MR construction and shielding design • MR safety equipment <b>Dr. Maxwell Amurao</b>
11:00 – 11:30	Diagnostic Approach of Enhancing Liver Lesions in Non-Cirrhotic Liver Lesions <b>Dr. Khaled M. Elsayes</b>	Dosimetry in Peptide Receptor Radionuclide Therapy (PRRT) - requirements, methodology & challenges <b>Dr. Sharok Kimiaei</b>	Hospital Preparedness and Management of Persons Accidentally Exposed <b>Dr. Mohammed Aldehaim</b>	Discussion and Q&A Session
11:30 – 12:00	Pitfalls in diagnosing enhancing liver lesions in Non-Cirrhotic livers <b>Dr. Khaled M. Elsayes</b>			
12:00 – 13:30	Prayer and Lunch Break			
SESSION II				
Activity Type/Title:	CT and MRI of the Abdomen	Molecular Imaging in the Era of Precision Medicine	Safety, Protection, Bio-Dosimetry and Emergency Preparedness	MRI Safety
Coordinator(s):	Dr. Khaled M. Elsayes	Dr. Moheieldin Abouzeid, Mr. Refaat Al-Mazrou	Dr. Ghazi Alsbeih, Dr. Mehenna Arib and Mr. Omar Noor	Mr. Omar Noor
Moderator(s):	Dr. Khaled M. Elsayes	Dr. Sharok Kimiaei	Dr. Nasser Shubayr, Mr. Hassan Alghamdi	Dr. Maxwell Amurao
Location:	Auditorium	Classroom 1	Classroom 3	Classroom 4
13:30 – 14:00	Diagnostic Approach of Enhancing Liver Lesions in Cirrhotic Liver <b>Dr. Khaled M. Elsayes</b>	Dosimetry workshop <b>Dr. Sharok Kimiaei</b>	The role of the General Directorate of Civil Defense in Managing Radiological Emergencies <b>Colonel. Saty Alotaibi</b>	MRI Safety – Considerations for Administrative and Procedural Controls • Signs and labels • MR Safety training • Patient positioning • MR Safety audits • Access Control • MR Safety screening • Claustrophobia, anxiety, distress • MR Safety Committee <b>Dr. Maxwell Amurao</b>
14:00 – 14:30	Pitfalls in diagnosing enhancing liver lesions in Cirrhotic livers <b>Dr. Khaled M. Elsayes</b>		Terrorism Perspective and Malicious Act Scenarios. <b>Dr. Nasser Shubayr</b>	
14:30 – 15:00	Diagnostic Approach of Pancreatic Masses <b>Dr. Khaled M. Elsayes</b>		Chemical, Biological, Radiological and Nuclear (CBRN) Defense <b>Mr. Ayman Barnawi</b>	MRI Safety – Special Considerations Implants, Devices, Objects and Interpreting Instructions for Use (IFU) <b>Dr. Maxwell Amurao</b>
15:00 – 15:30	Pitfalls in diagnosis of pancreatic masses <b>Dr. Khaled M. Elsayes</b>		Prayer & Afternoon Break	Prayer & Afternoon Break
15:30 – 16:00		Dosimetry workshop <b>Dr. Sharok Kimiaei</b>	Saudi Emergency Response Preparedness Network <b>Dr. Nasser Shubayr</b>	MRI Safety – Special Considerations • Gadolinium Based Contrast Agents • Pregnancy and breastfeeding • Emergencies in the MR environment • Cryogen safety • Hybrid Modalities <b>Dr. Maxwell Amurao</b>
16:00 – 16:30			Radiation Safety and Monitoring During Radiological Emergency <b>Mr. Hassan Alghamdi</b>	
16:30 – 17:00				

**PROGRAM AT A GLANCE | Monday, 13 FEBRUARY 2023**

8:00-9:00						Registration & Morning Coffee					
SESSION I											
Activity/Track	CT and MRI of the Abdomen	Molecular Imaging in the Era of Precision Medicine	Radiation Protection	Radiology Shielding	Advances in Radiation Oncology						
Coordinator(s):	Dr. Khaled M. Elsayes	Dr. Moheieldin Abouzeid, Mr. Refaat Al-Mazrou	Dr. Ghazi Alsbeih, Dr. Mehenna Arib	Mr. Omar Noor	Dr. Mohammad Al-Shabanah						
Moderator(s):	Dr. Khaled M. Elsayes	Dr. Ahmad Almuhaideb and Dr. Ahmed Fathala Dr. Abdulaziz Alsugair and Dr. Ahmed Alruwaili	Dr. Mehenna Arib	Dr. Maxwell Amurao	Dr. Mohammad Al-Shabanah, Dr. Belal Moftah						
Location:	Auditorium	Classroom 1	Classroom 3	Classroom 4	Classroom 6						
9:00 – 9:30	Illustrative radiological anatomy of peritoneal and retroperitoneal spaces <b>Dr. Khaled M. Elsayes</b>	Evolving landscape of Prostate cancer management <b>Dr. Shouki Bazarbashi</b>	Radiation Protection Principles & Program <b>Dr. Belal Moftah</b>	Ionizing Radiation Shielding Basics <b>Dr. Maxwell Amurao</b>	IORT: KFSH&RC Experience <b>Dr. Tarek Bait Almal</b>						
9:30 – 10:15	disease Diagnostic Approach in diagnosis of peritoneal <b>Dr. Khaled M. Elsayes</b>	Multipara metric MRI for precision Diagnosis of Prostate Cancer <b>Dr. Sherif Gamal</b>	Protection Against Radiation <b>Dr. Mehenna Arib</b>		Latest Advancements in Electron Therapy – Accelerating the Clinical Implementation of FLASH RT <b>Dr. Sebastian Adamczyk</b>						
		Update on Molecular imaging of prostate cancer <b>Dr. Jamshed Bomanji</b>									
10:15 – 10:35						Opening Ceremony					
10:35 – 11:00	Pitfalls in diagnosis of peritoneal diseases <b>Dr. Khaled M. Elsayes</b>	Response assessment in prostate cancer: present state and future direction <b>Dr. Egesta Lopci</b>	International Chain of Radiation Dosimetry <b>Dr. Mehenna Arib</b>	Radiography, Fluoroscopy, Mammography, CT <b>Dr. Maxwell Amurao</b>	Proton Therapy <b>Dr. Mohammed Aldehaim</b>						
11:00 – 11:30	Diagnostic Approach in diagnosis of retroperitoneal pathologies <b>Dr. Khaled M. Elsayes</b>				Advances in Brachytherapy <b>Dr. Noha Jastaniyah</b>						
11:30 – 12:00	Pitfalls in diagnosis of retroperitoneal pathologies <b>Dr. Khaled M. Elsayes</b>	Lu-PSMA therapy: Focus on setting UP infrastructure for delivery of safe therapy <b>Dr. Jamshed Bomanji</b>	Personal Dosimetry <b>Mr. Ibrahim Al-Gain</b>		Discussion						
12:00 – 13:30						Prayer and Lunch Break					
SESSION II											
Activity/Track	CT and MRI of the Abdomen	Molecular Imaging in the Era of Precision Medicine	Radiology Shielding		Advances in Radiation Oncology						
Coordinator(s):	Dr. Khaled M. Elsayes	Dr. Moheieldin Abouzeid, Mr. Refaat Al-Mazrou	Mr. Omar Noor		Dr. Mohammad Al-Shabanah						
Moderator(s):	Dr. Khaled M. Elsayes	Dr. Riyadh Alsalloum and Dr. Yazeed Aldalilah	Dr. Maxwell Amurao		Dr. Ameen Alomair, Dr. Khizar Hayat						
Location:	Auditorium	Classroom 1	Classroom 3		Classroom 4						
13:30 – 14:00	Renal Masses; Diagnostic Approach <b>Dr. Khaled M. Elsayes</b>	Changing landscape of breast cancer management <b>Dr. Taher Al-Tweigeri</b>	Shielding of Nuclear Medicine and Radiopharmaceutical Therapy Facilities <b>Dr. Maxwell Amurao</b>		Scripting: Clinical Experience to Radiotherapy Planning Automation <b>Dr. Matthew Schmidt</b>						
14:00 – 14:30	Pitfalls in diagnosis of renal masses <b>Dr. Khaled M. Elsayes</b>	Estrogen receptor targeted imaging – clinical applications <b>Dr. Gary Ulaner</b>			AI-Based Segmentation <b>Ms. Eleonora Lanzi</b>						
14:30 – 15:00	Interesting Case competition; Dollar Prize <b>Dr. Khaled M. Elsayes</b>	Molecular Imaging of breast cancer, evolving new radiotracers <b>Dr. Subhani Okarvi</b>			KFSH&RC Planning Automation Experience <b>Mr. Ahmad Nobah</b>						
15:00 – 15:30	Diagnostic Approach of Adrenal Masses <b>Dr. Khaled M. Elsayes</b>	PSMA targeted radionuclide therapy; Alpha labeling <b>Dr. Stephan Maus</b>	Discussion and Q&A Session		Discussion						
15:30 – 16:00	Pitfalls in diagnosis of adrenal masses <b>Dr. Khaled M. El sayes</b>	Prayer & Afternoon Break		Prayer & Afternoon Break							
16:00 – 16:30		Estrogen receptor-targeted imaging – cases and interpretation <b>Dr. Gary Ulaner</b>	Shielding of SPECT/CT, PET/CT, MRI Facilities <b>Dr. Maxwell Amurao</b>		MRI-based planning <b>Dr. Habib AlSaleh</b>						
16:30 – 17:00			Q&A Session <b>Dr. Maxwell Amurao</b>		Implementation of SGRT for SRS <b>Mr. Luke Rock</b>						
17:00 – 17:20					MR Linac in the clinic <b>Dr. Mohamed Rizwanullah</b>						
					Discussion						

**PROGRAM AT A GLANCE | Tuesday, 14 FEBRUARY 2023**

SESSION I			
Activity/Track	Imaging of the Liver and Pancreas	Radiation Protection	Scripting: Introduction to Radiotherapy Planning Automation
Coordinator(s):	Dr. Carlos Holguera-Blazquez and Dr. Mohammed Neimatallah	Dr. Ghazi Alsbeih, Dr. Mehenna Arib and Mr. Omar Noor	Mr. Ahmad Nobah
Moderator(s):	Dr. Mamdoh and Dr. Mohammed Neimatallah	Dr. Belal Mofteh, Mr. Ahnaf Arafah	Dr. Matthew Schmidt
Location:	Classroom 1	Classroom 3	Auditorium
8:30 – 9:00	Welcoming <b>Dr. Yusuf AlKadhi</b> History of Abdominal Radiology in Saudi Arabia: How did it starts? <b>Dr. Yusuf AlKadhi</b>		Getting Started: Logging into the Virtual machines and accessing Eclipse. <b>Dr. Matthew Schmidt</b>
9:00 – 9:30	AI in liver tumors: where we are? <b>Prof. Valerie Vilgrain</b>	Radiation Protection in Diagnostic Radiology <b>Mr. Omar Noor</b>	Introduction to Eclipse Scripting API. Clinical use cases of API facilitated planning item access. <b>Dr. Matthew Schmidt</b>
9:30 – 10:00	THAD THID What are those bright spots? <b>Dr. Carlos Holguera</b>	The Role of SFDA in Regulating Radiation Emitting Devices National Diagnostics Reference Levels (NDRLs) <b>Mr. Fahad Alothaim, Ms Alanood Alshamsi</b>	Morning Break
10:00 – 10:30	How imaging shows Liver resilience? <b>Prof. Valerie Vilgrain</b>	<b>Morning Break</b>	Introduction to Eclipse Scripting API. Access to RT plan details, Images, and doses <b>Dr. Matthew Schmidt</b>
10:30 – 11:00	Liver transplant: Current status What liver transplant surgeon needs from the radiologist? <b>Prof. Dieter Broering</b>	Nuclear Medicine Physics <b>Mr. Refaat Almazrou</b>	
11:00 – 11:30	Hepatobiliary changes and complications after medical and invasive therapies <b>Dr. Fawaz Al Harbi</b>	Radiation Protection in Nuclear Medicine <b>Mr. Ahnaf Arafah</b>	
11:30 – 12:00	Q & A <b>Prayer and Lunch Break</b>	Radiation Protection in Radiotherapy <b>Dr. Belal Mofteh</b>	
12:00 – 13:30	<b>Prayer and Lunch Break</b>		
SESSION II			
Activity/Track	Imaging of the Liver and Pancreas	Radiation Protection	Scripting: Introduction to Radiotherapy Planning Automation
Coordinator(s):	Dr. Carlos Holguera-Blazquez and Dr. Mohammed Neimatallah	Dr. Ghazi Alsbeih, Dr. Mehenna Arib and Mr. Omar Noor	Mr. Ahmad Nobah
Moderator(s):	Dr. Abalkhail and Dr. Alsharani	Mr. Ibrahim Al-Gain, Mr. Fareed Mayhoub	Dr. Matthew Schmidt
Location:	Classroom 1	Classroom 3	Auditorium
13:00 – 13:30			Automated Plan Evaluation of Radiation Therapy Plans <b>Dr. Matthew Schmidt</b>
13:30 – 14:00	Dual Energy CT. Advances in Liver Imaging <b>Dr. Faisal Alballa</b>	Technical Regulations – Radiation Safety <b>Mr. Ibrahim Al-Gain</b>	Building a Simple Plan Checker: Plan checking from templates <b>Dr. Matthew Schmidt</b>
14:00 – 14:30	Portal hypertension: new approach <b>Prof. Valerie Vilgrain</b>	Technical Regulations – Transportation of Radioactive Material <b>Mr. Fareed Mayhoub</b>	
14:30 – 15:00	Approach and cases of periportal/porta hepatis lesions <b>Dr. Hana Alfaleh</b>	Technical Regulations – Management of Radioactive Waste <b>Mr. Fareed Mayhoub</b>	
15:00 – 15:30	Q & A	Technical Regulations – Security of Radioactive Materials <b>Mr. Ibrahim Al-Gain</b>	<b>Break</b>
15:30 – 16:00	Group 1 - <b>Prof. Valerie Vilgrain – meeting room 1</b>   Group 2 - <b>Dr. Mohammed Neimatallah – meeting room 2</b>	<b>Prayer &amp; Afternoon Break</b>	Open Source: Plan Evaluation using Planning Scorecards <b>Dr. Matthew Schmidt</b>
16:00 – 16:30		Radiation Emergency Response Planning <b>Dr. Ghazi Alsbeih</b>	Visual Scripting for Plan Reporting <b>Dr. Matthew Schmidt</b>
16:30 – 17:00	Group 2 - <b>Prof. Valerie Vilgrain – meeting room 1</b>   Group 1 - <b>Dr. Mohammed Neimatallah – meeting room 2</b>		
17:00 – 19:15	How to extract radiomics from a specific organ and compare the radiomics results to build a predictive model for that using AI or machine learnin <b>Dr Metab Alkubeyyer – Classroom 1</b>		Wrap up and Code Collection <b>Dr. Matthew Schmidt</b>

## PROGRAM AT A GLANCE | Wednesday, 15 FEBRUARY 2023

SESSION I		
Activity/Track	Imaging of the Liver and Pancreas	Laboratory Safety
<b>Coordinator(s):</b>	Dr. Carlos Holguera-Blazquez and Dr. Mohammed Neimatallah	Dr. Ghazi Alsbeih, Dr. Mehenna Arib and Mr. Omar Noor
<b>Moderator(s):</b>	Dr. Mamdoh and Dr. Mohammed Neimatallah	Dr. Ghazi Alsbeih, Dr. Farhatullah Syed
<b>Location:</b>	Auditorium	Classroom 3
<b>8:50 – 9:00</b>	Close to End: Welcoming <b>Dr. Carlos Holguera</b>	
<b>9:00 – 9:30</b>	Cystic liver lesions: EASL CPG update <b>Prof. Valerie Vilgrain</b>	Introduction to Laboratory Safety <b>Dr. Ghazi Alsbeih</b>
<b>9:30 – 10:00</b>	Imaging of benign and malignant liver lesions in non-cirrhotic liver <b>Dr. Abdullah Aldosary</b>	Laboratory Safety Standard <b>Dr. Fouad Aldayel</b>
<b>10:00 – 10:30</b>	Hepatic fat/iron quantification <b>Dr. Metab Alkubeyyer</b>	<b>Morning Break</b>
<b>10:30 – 11:00</b>	Pancreatobiliary Dual Energy CT <b>Dr. Mohammed Mohammed</b>	Chemical Safety <b>Mr. Turki Almulhim</b>
<b>11:00 – 11:30</b>	Rare Solid Tumors of the Pancreas <b>Prof. Valerie Vilgrain</b>	Biological and Recombinant DNA Safety <b>Dr. Farhatullah Syed</b>
<b>11:30 – 12:00</b>	Q & A	
<b>12:00 – 13:30</b>	<b>Prayer and Lunch Break</b>	
SESSION II		
Activity/Track	Imaging of the Liver and Pancreas	Laboratory Safety & Biosimetry
<b>Coordinator(s):</b>	Dr. Carlos Holguera-Blazquez and Dr. Mohammed Neimatallah	Dr. Ghazi Alsbeih, Dr. Mehenna Arib and Mr. Omar Noor
<b>Moderator(s):</b>	Dr. Fahim and Dr. Alsharani	Mr. Falah Almohanna and Dr. Khaled Al-Hadyan
<b>Location:</b>	Auditorium	Classroom 3
<b>13:30 – 14:00</b>	Role of radiomics in pancreatic cancer <b>Dr. Metab Alkubeyyer</b>	Safety in Laboratory Animal Facilities <b>Mr. Falah Almohanna</b>
<b>14:00 – 14:30</b>	Pseudotumors of the Pancreas <b>Prof. Valerie Vilgrain</b>	Radiation Safety in Research Laboratory <b>Mr. Omar Noor</b>
<b>14:30 – 15:00</b>	Pancreatic cancer: What the surgeon needs from the radiologist <b>Dr. Fawaz al Harbi</b>	Common Laboratory Safety Rules <b>Dr. Ghazi Alsbeih</b>
<b>15:00 – 15:30</b>	Q & A	Questions & Answers <b>Dr. Ghazi Alsbeih &amp; Mr. Omar Noor</b>
<b>15:30 – 16:00</b>	You will learn how to reconstruct and interpret dual energy CT images and their real world applications through hands-on learning using actual cases on the advanced imaging workstations <b>Dr. Mohammed Mohammed and Dr. Faisal Alballa</b>	<b>Prayer &amp; Afternoon Break</b>
<b>16:00 – 16:30</b>		Cytogenetic Dose Assessment in Radiation Accident <b>Dr. Ghazi Alsbeih</b>
<b>16:30 – 17:00</b>		National Biosimetry Laboratory in Saudi Arabia <b>Dr. Khaled Al-Hadyan</b>

## PROGRAM AT A GLANCE | Thursday, 16 FEBRUARY 2023

SESSION I		
Activity/Track	Radiobiology & Biodosimetry Workshops	Radiation Protection Workshop
Coordinator(s):	Ms. Najla Al-Harbi	Dr. Mehna Arib
Moderator(s):		
Location:	Biodosimetry Lab	SSDL Lab
9:00 – 9:30	Radiobiology Workshop 1 Ms. Sara Bin Judia & Ms. Maha Alghamdi	Radiation Detection & Measurement Workshop 1 (Photon Beams) Mr. Hesham Alhamdan & Ms. Heba Alhumaidan
9:30 – 10:00	Biodosimetry Workshop 1 Ms. Najla Al-Harbi and Dr. Ghazi Alsbeih	
10:00 – 10:30	Morning Break	Radiation Detection & Measurement Workshop 2 (Neutron Beams) Dr. Mehna Arib & Mr. Hesham Alhamdan
10:30 – 11:00	Radiobiology Workshop 2 Ms. Najla Al-Harbi and Ms. Reema Alzeer	
11:00 – 11:30		
11:30 – 12:00	Biodosimetry Workshop 2 Dr. Ghazi Alsbeih and Dr. Khaled Al-Hadyan	
12:00 – 13:30	Prayer and Lunch Break	